

CLASS SPECIFICATION
County of Fairfax, Virginia

CLASS CODE: 5104

TITLE: ENGINEER I

GRADE: S-20

DEFINITION:

Under supervision, to perform work of a training nature in the development of engineering work skills; and to do related work as required.

TYPICAL TASKS:

Performs engineering assignments of gradually increasing complexity, under the close supervision of an engineering supervisor, in the construction and maintenance of streets, buildings, drainage systems, sewers and the administration of the Subdivision Control Ordinance;

Collects and compiles research data relating to land use;

Trains in the reviewing of subdivision and site plans, the computation of highway cross-sections and curvatures;

Gives information to the public;

Tabulates records and statistical data;

Studies County ordinances pertaining to urban development, site plans and subdivision developments.

REQUIRED KNOWLEDGE, SKILLS AND ABILITIES:

Knowledge of the principles of physics and mathematics used in civil engineering and of their application to engineering problems;

Knowledge of topographic and construction surveying, stress analysis, mechanics and properties of materials;

Knowledge of common methods and equipment used in engineering construction and of inspection methods used in reviewing such work;

Knowledge of engineering economics and real property descriptions;

Knowledge of civil engineering drafting methods;

Knowledge of the theory of urban planning;

Ability to make accurate drawings and maps;

Ability to make accurate computations and neat and accurate field notes; ability to collect and compile research data; ability to meet and deal with the public.

EMPLOYMENT STANDARDS:

Graduation from college with major course work in the appropriate engineering field.

Appropriate engineering experience may be substituted on a year-for-year basis for the required education.

Upon the successful completion of the training period, trainees are eligible for appointment to regular positions, within the Engineering series, for which they have been trained.